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SUBJECT – COMPUTER WORKSHOP FINAL SEM WORKSHEET

Write a program to count prime numbers upto certain numbers in C/C++.

SOL – I CHOOSE C++ LANG TO PRINT PRIME NO.

UPTO CERTAIN NO. EX – I CHOOSE 1 TO 30.

OUTPUT - 2 3 5 7 11 13 17 19 23 29

CHECK THE PROGRAM CODE AND OUTPUT BELOW..

## PROGRAM CODE IN COMPILER (C++)

```
assignm.cpp > ...
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int low, high, i;
6      bool isPrime = true;
7
8      cout << "Enter two numbers (intervals): ";
9      cin >> low >> high;
10
11     cout << "\nPrime numbers between " << low << " and " << high << " are: " << endl;
12
13     while (low < high) {
14         isPrime = true;
15         if (low == 0 || low == 1) {
16             isPrime = false;
17         }
18         else {
19             for (i = 2; i <= low / 2; ++i) {
20                 if (low % i == 0) {
21                     isPrime = false;
22                     break;
23                 }
24             }
25         }
26
27         if (isPrime)
28             cout << low << " ";
29
30         ++low;
31     }
32
33     return 0;
34 }
35
```

## OUTPUT PROGRAM –

```
assignm.cpp > ...
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int low, high, i;
6     bool isPrime = true;
7
8     cout << "Enter two numbers (intervals): ";
9     cin >> low >> high;

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 2: Code

```
cd "/Users/rajdeepjaiswal/Desktop/c++/" && g++ assignm.cpp -o assignm && "/Users/rajdeepjaiswal/Desktop/c++/"assignm
rajdeepjaiswal@Rajdeeps-Air c++ % cd "/Users/rajdeepjaiswal/Desktop/c++/" && g++ assignm.cpp -o assignm && "/Users/rajdeepjaiswal/Desktop/c++/"
assignm
Enter two numbers (intervals): 1
30

Prime numbers between 1 and 30 are:
2 3 5 7 11 13 17 19 23 29
rajdeepjaiswal@Rajdeeps-Air c++ %
```

Ln 2, Col 21 Spaces: 4 UTF-8 LF C++ Mac